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JUN 24 1970

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR OREGON

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE

and

OREGON STATE UNIVERSITY

and

STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above
in cooperation with other Federal, State and private organizations.

AS OF
JUNE 1, 1970

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE | ADDRESS |
|--------------------|---|
| Alaska | P. O. Box "F", Palmer, Alaska 99645 |
| Arizona | 6029 Federal Building, Phoenix, Arizona 85025 |
| Colorado (N. Mex.) | 12417 Federal Building, Denver, Colorado 80202 |
| Idaho | Room 345, 304 N. 8th. St., Boise, Idaho 83702 |
| Montana | P. O. Box 98, Bozeman, Montana 59715 |
| Nevada | P. O. Box 4850, Reno Nevada 89505 |
| Oregon | 1218 S. W. Washington St., Portland, Oregon 97205 |
| Utah | 4012 Federal Building, Salt Lake City, Utah 84111 |
| Washington | 360 U.S. Court House, Spokane, Washington 99201 |
| Wyoming | P. O. Box 340, Casper, Wyoming 82601 |

PUBLISHED BY OTHER AGENCIES.

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JUNE 8, 1970

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||

Released by

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PORTLAND, OREGON

In Cooperation with

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DIRECTOR
OREGON AGRICULTURAL
EXPERIMENT STATION

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STATE ENGINEER
STATE OF OREGON

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and

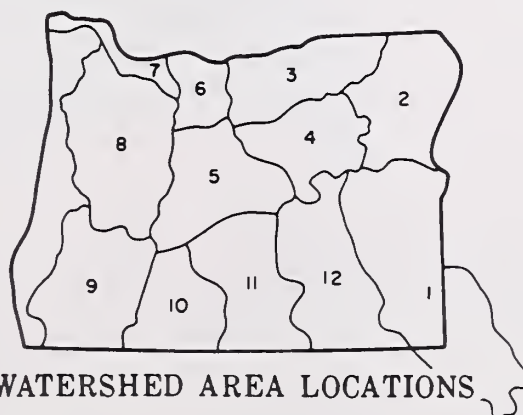
HOWARD M. VANCE, Assistant Snow Survey Supervisor

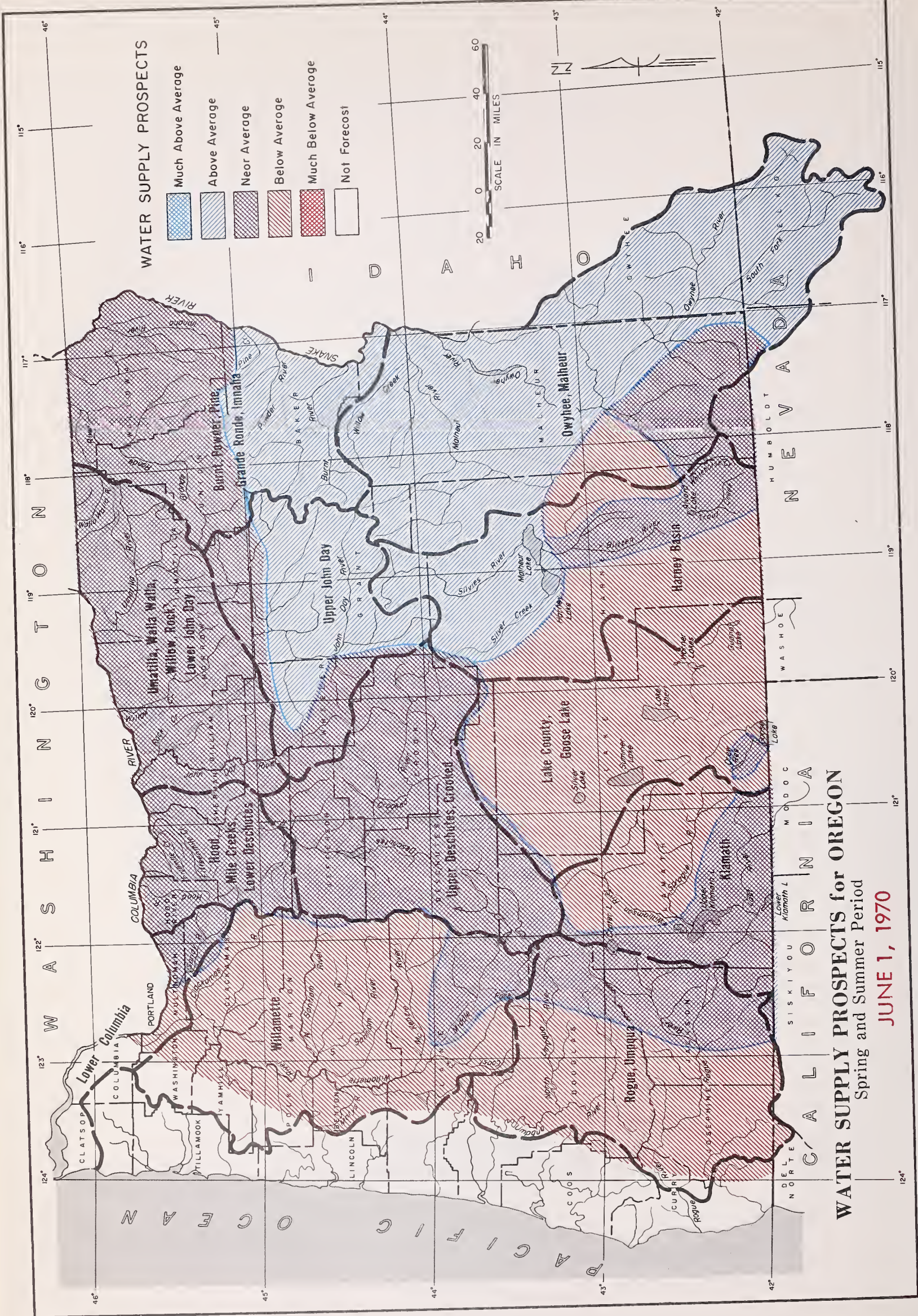
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205



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WATER SUPPLY OUTLOOK for OREGON

JUNE 1, 1970

The water supply outlook for Oregon remains nearly the same as last month. Fair supplies in western Oregon and average to excellent supplies in the eastern part of the state are anticipated. The snowmelt, which was delayed in April due to cold temperatures, occurred during May on most watersheds. Most reservoirs are still full even though deliveries were made to water users during the month.

SNOW COVER

Much of the high elevation snow is now gone, except for areas above 7000 feet in eastern Oregon and along the crest of the Cascades. Median elevation snow melted in February and March. Automatic snow stations in the Cascades are reporting 3 to 5 feet of snow at 5500 to 6000 feet in elevation. This is about normal for this time of year.

PRECIPITATION

Precipitation during May was poor over most of the state. In extreme eastern Oregon it was about 90 percent of average. The rest of the state had rainfall one-third to two-thirds of average. Precipitation has been mostly below normal for the past four months.

RESERVOIR STORAGE

Stored water supplies are excellent. Deliveries are being made with most reservoirs still remaining full. The outlook for carryover for next year is good. Current storage in twenty-six reservoirs is 120 percent of average.

STREAMFLOW

Runoff in Oregon rivers and streams picked up during May as the warmer temperatures melted the snowpack. Streamflow was average to above average on all streams except in the Deschutes, Klamath, and Rogue basins where it was 70 to 80 percent of average.

continued on next page

continued--

The following streamflow forecasts have been selected to generally represent the different areas of the state, and most other streams near these will be close to the represented percent of average:

| | <u>Period</u> | <u>Forecast 1000's A.F.</u> | <u>Percent 1953-67 Average</u> |
|---------------------------------|---------------|---------------------------------|------------------------------------|
| Owyhee Net Inflow | May-July | 210 | 131 |
| Umatilla at Pendleton | May-July | 95 | 126 |
| Mid. Fk. John Day near Ritter | May-July | 90 | 129 |
| Grande Ronde near La Grande | May-July | 105 | 104 |
| Powder near Baker | May-July | 55 | 131 |
| Deschutes at Benham Falls | May-July | 250 | 82 |
| Mid. Fk. Willamette blw. N. Fk. | May-July | 400 | 82 |
| Rogue at Raygold | May-July | 440 | 84 |
| Upper Klamath Lake net Inflow | May-July | 275 | 71 |
| Silvies near Burns | May-July | 45 | 115 |
| Malheur near Drewsey | May-July | 48 | 145 |
| Chewaucan near Paisley | May-July | 44 | 76 |

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, U. S. Weather Bureau and other cooperators.



U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION

40

80

35

70

30

60

25

50

20

40

15

30

10

20

5

10

0

0

DAILY 8:00 A.M. OBSERVATIONS

Radined by

COLD SPRINGS CAMP
AUTOMATIC SNOW STATION

KLAMATH RIVER WATERSHED
AT 6100 FEET ELEVATION

NOTE: SOME POINTS ON GRAPH ARE INTERPOLATED.

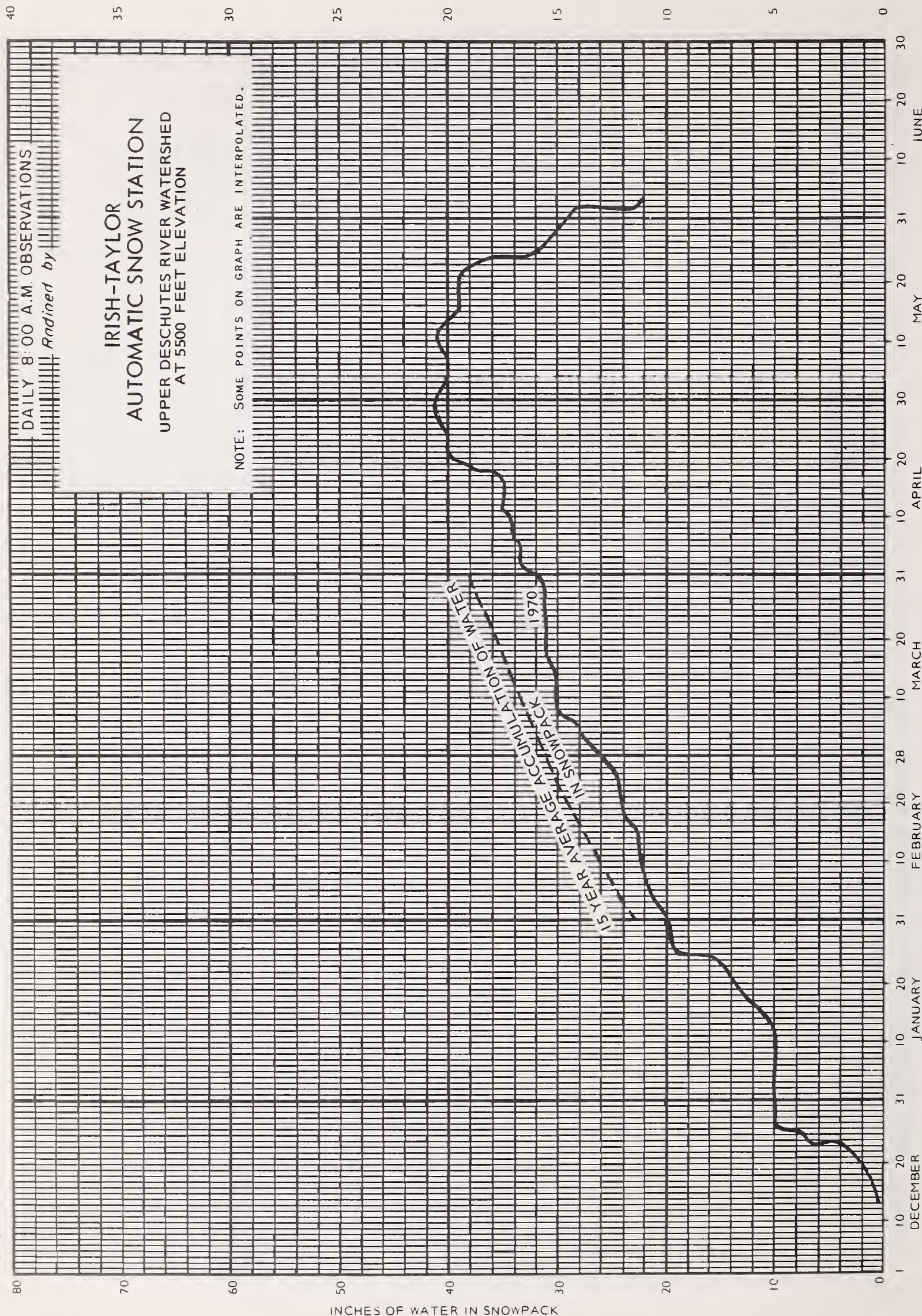
INCHES OF WATER IN SNOWPACK

15 YEAR AVERAGE ACCUMULATION OF WATER IN SNOWPACK

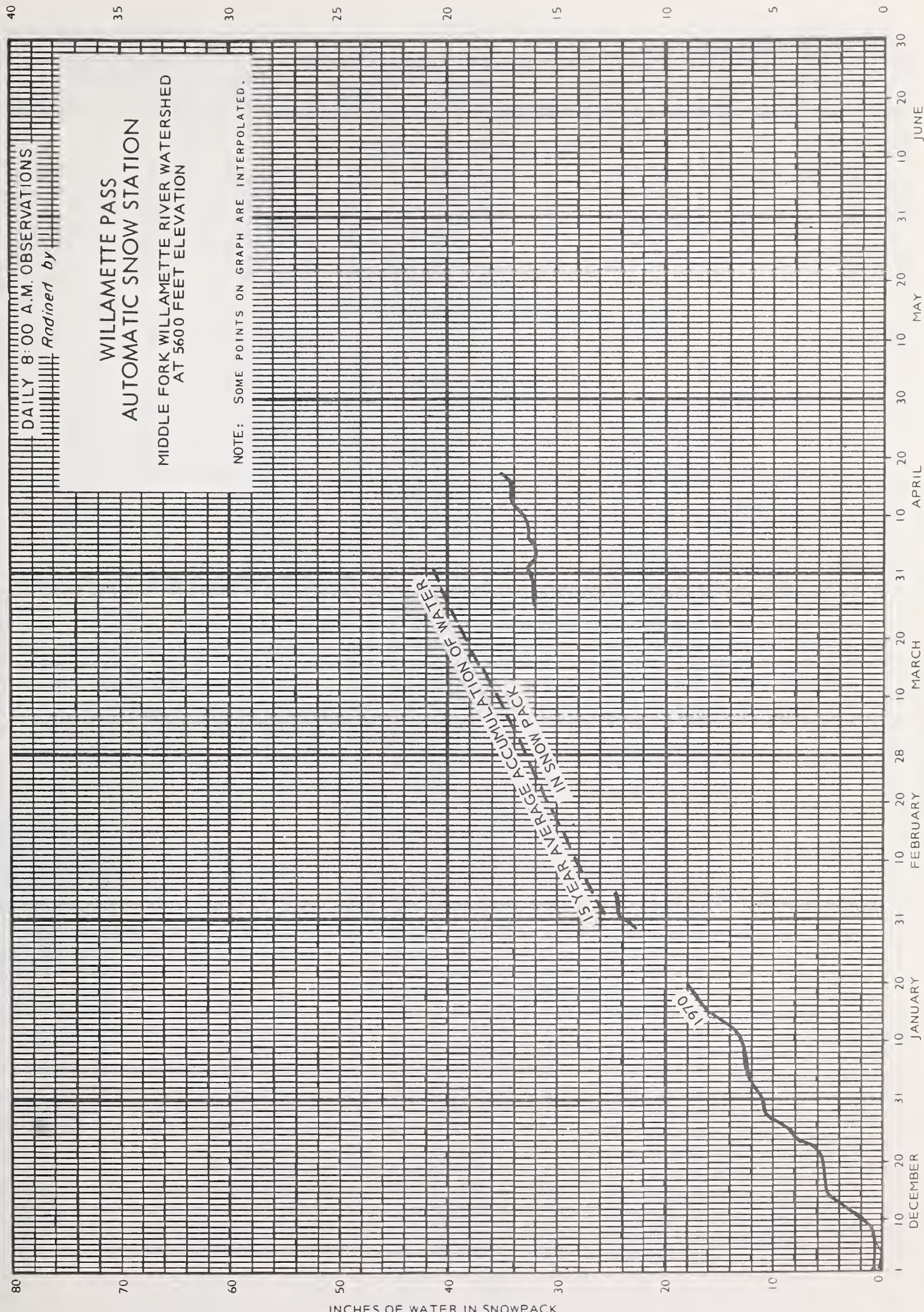
1970

DECEMBER 10 20 31 JANUARY 10 20 31 FEBRUARY 10 20 28 MARCH 10 20 31 APRIL 10 20 30 MAY 10 20 30 JUNE 10 20 30

U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



U.S.D.A. SOIL CONSERVATION SERVICE DAILY RADIO REPORTS BY AUTOMATIC SNOW MEASURING STATION



STREAMFLOW FORECASTS as of June 1, 1970

| STREAMFLOW FORECASTS | | as of June 1, 1970 | | THIS YEAR | | PAST RECORD | |
|--|------|--------------------|--------------------|-----------------|--------------------|----------------------|--|
| BASIN, STREAM and/or FORECAST POINT | | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | | |
| | | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ | |
| OWYHEE, MALHEUR WATERSHEDS | | | | | | | |
| Jordan Creek above Lone Tree Creek | 65 | 135 | May-July | b | 48 | | |
| Malheur near Drewsey | 48 | 145 | May-July | 22 | 33 | | |
| | 49 | 144 | May-Sept. | 23 | 34 | | |
| Malheur, North Fork at Beulah ^d | 44 | 133 | May-July | 35 | 33 | | |
| | 49 | 129 | May-Sept. | 41 | 38 | | |
| Owyhee Reservoir net Inflow ^k | 210 | 131 | May-July | 196 | 160 | | |
| | 230 | 128 | May-Sept. | 214 | 179 | | |
| BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS | | | | | | | |
| Bear near Wallowa | 59 | 104 | May-Sept. | b | 57 | | |
| Burnt near Hereford ^d | 23 | 161 | May-July | b | 14.3 | | |
| | 24 | 155 | May-Sept. | b | 15.5 | | |
| Catherine near Union | 54 | 104 | May-Sept. | 53 | 52 | | |
| Eagle Creek above Skull Creek | 173 | 121 | May-July | 149 | 143 | | |
| | 186 | 119 | May-Sept. | 163 | 156 | | |
| Grande Ronde at La Grande | 105 | 104 | May-July | 116 | 101 | | |
| | 109 | 104 | May-Sept. | 119 | 105 | | |
| Hurricane Creek near Joseph | 45 | 100 | May-Sept. | b | 45 | | |
| Imnaha at Imnaha | 243 | 108 | May-Sept. | b | 225 | | |
| Lostine near Lostine | 125 | 108 | May-Sept. | b | 116 | | |
| Powder River near Baker | 55 | 131 | May-July | b | 42 | | |
| | 57 | 130 | May-Sept. | b | 44 | | |
| Wallowa, East Fork near Joseph ^d | 8.7 | 100 | May-July | b | 8.7 | | |
| | 11.2 | 100 | May-Sept. | b | 11.2 | | |
| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS | | | | | | | |
| Butter Creek near Pine City | 4.7 | 118 | May-July | b | 4.0 | | |
| McKay near Pilot Rock | 11.8 | 108 | May-Sept. | b | 11.0 | | |
| Umatilla River near Gibbon | 53 | 125 | May-July | b | 42 | | |
| | 58 | 121 | May-Sept. | b | 48 | | |
| Umatilla River at Pendleton | 95 | 126 | May-July | 85 | 75 | | |
| | 99 | 123 | May-Sept. | 89 | 80 | | |
| Walla Walla, No. Fork near Milton | 9.4 | 115 | May-July | b | 8.2 | | |
| | 10.2 | 117 | May-Sept. | b | 8.7 | | |
| Walla Walla, So. Fork near Milton | 41 | 108 | May-July | 38 | 38 | | |
| | 55 | 110 | May-Sept. | 50 | 50 | | |
| UPPER JOHN DAY WATERSHEDS | | | | | | | |
| John Day at Prairie City | 39 | 130 | May-July | b | 30 | | |
| | 44 | 129 | May-Sept. | b | 34 | | |
| John Day, Middle Fork at Ritter | 90 | 129 | May-July | 74 | 70 | | |
| | 95 | 128 | May-Sept. | 77 | 74 | | |
| Strawberry near Prairie City | 9.1 | 118 | Apr-July | 4.6 | 7.7 | | |
| | 9.9 | 118 | Apr-Sept. | 5.1 | 8.4 | | |
| UPPER DESCHUTES, CROOKED WATERSHEDS | | | | | | | |
| Crane Prairie Reservoir total Inflow | 56 | 82 | May-July | 61 | 68 | | |
| | 90 | 81 | May-Sept. | 99 | 111 | | |
| Crescent at Crescent Lake ^d | 13.2 | 71 | May-July | b | 18.5 | | |
| | 18.0 | 75 | May-Sept. | b | 24 | | |
| Crooked near Post | 44 | 116 | May-July | b | 38 | | |
| | 45 | 113 | May-Sept. | b | 40 | | |
| Deschutes at Benham Falls ^d | 250 | 82 | May-July | 272 | 305 | | |
| | 410 | 80 | May-Sept. | 449 | 509 | | |
| Deschutes below Snow Creek | 45 | 76 | May-Sept. | 50 | 59 | | |
| Deschutes, Little near La Pine ^d | 37 | 60 | May-July | 62 | 61 | | |
| | 45 | 61 | May-Sept. | 67 | 73 | | |
| Ochoco Reservoir net Inflow | 6.3 | 52 | May-Sept. | b | 12.1 | | |
| Odell near Crescent | 20 | 80 | May-Sept. | 24 | 25 | | |
| Squaw near Sisters | 45 | 96 | May-Sept. | 48 | 47 | | |
| Tumalo near Bend ^d | 42 | 98 | May-Sept. | 38 | 43 | | |

STREAMFLOW FORECASTS as of June 1, 1970

| STREAMFLOW FORECASTS as of June 1, 1970 | | THIS YEAR | | PAST RECORD | |
|---|--------------------|--------------------|-----------------|--------------------|----------------------|
| BASIN, STREAM and/or FORECAST POINT | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS | | | | | |
| Hood near Hood River ^d | 154 | 81 | May-July | b | 189 |
| | 195 | 80 | May-Sept. | b | 243 |
| Hood, West Fork near Dee | 81 | 90 | May-July | 137 | 90 |
| | 101 | 90 | May-Sept. | 159 | 112 |
| White below Tygh Valley | 71 | 82 | May-July | b | 86 |
| | 85 | 82 | May-Sept. | b | 103 |
| LOWER COLUMBIA WATERSHEDS | | | | | |
| Columbia at The Dalles ^d | 51,950 | 87 | May-June | b | 59,688 |
| | 82,350 | 89 | May-Sept. | b | 92,457 |
| WILLAMETTE WATERSHEDS | | | | | |
| Clackamas at Big Bottom | 76 | 80 | May-July | b | 95 |
| | 102 | 80 | May-Sept. | b | 127 |
| Clackamas at Estacada | 335 | 73 | May-July | b | 455 |
| | 447 | 78 | May-Sept. | b | 566 |
| Clackamas above Three Lynx | 270 | 78 | May-July | b | 348 |
| | 350 | 79 | May-Sept. | b | 442 |
| McKenzie at McKenzie Bridge | 365 | 78 | Apr-July | b | 465 |
| | 457 | 74 | Apr-Sept. | b | 614 |
| McKenzie near Vida | 572 | 76 | May-July | b | 754 |
| | 800 | 81 | May-Sept. | b | 989 |
| Oak Grove Fork above Power Intake | 96 | 77 | Apr-July | b | 125 |
| | 126 | 77 | Apr-Sept. | b | 163 |
| Row near Dorena | 76 | 72 | Apr-July | b | 106 |
| | 81 | 74 | Apr-Sept. | b | 110 |
| Santiam, North at Mehama ^d | 370 | 72 | May-July | b | 513 |
| | 448 | 73 | May-Sept. | b | 614 |
| Santiam, South at Waterloo | 435 | 73 | Apr-July | b | 596 |
| | 468 | 74 | Apr-Sept. | b | 633 |
| Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge ^d | 400 | 82 | May-July | b | 490 |
| | 480 | 81 | May-Sept. | b | 593 |
| Willamette at Salem ^d | 2204 | 79 | May-July | b | 2783 |
| | 2698 | 82 | May-Sept. | b | 3286 |
| ROGUE, UMPQUA WATERSHEDS | | | | | |
| Applegate near Copper | 108 | 77 | Apr-Sept. | b | 140 |
| Clearwater above Trap Creek ^d | 52 | 87 | May-Sept. | b | 60 |
| Fourmile Lake net Inflow ^d | 4.2 | 102 | Apr-Sept. | b | 4.1 |
| Hyatt Reservoir net Inflow ^d | 2.0 | 80 | May-Sept. | b | 2.4 |
| Illinois River near Kerby | 65 | 70 | May-July | b | 93 |
| | 71 | 71 | May-Sept. | b | 99 |
| Little Butte, N. Fk. at Fish Lake nr. Lake Cr. ^d | 9.0 | 73 | May-Sept. | b | 12.3 |
| Little Butte, S. Fk. near Lake Creek | 20 | 60 | Apr-July | b | 33 |
| Rogue above Prospect | 145 | 75 | May-July | b | 192 |
| | 187 | 75 | May-Sept. | b | 249 |
| Rogue, South Fork near Prospect ^d | 39 | 84 | May-July | b | 46 |
| | 47 | 84 | May-Sept. | b | 57 |
| Rogue River below South Fork | 337 | 81 | May-July | b | 413 |
| | 466 | 84 | May-Sept. | b | 551 |
| Rogue at Raygold near Central Point | 440 | 84 | May-July | 582 | 525 |
| | 580 | 84 | May-Sept. | 731 | 685 |
| Rogue at Grants Pass | 549 | 83 | May-Sept. | b | 662 |
| Umpqua, No. blw. Lemolo Res. nr. Toketee Falls ^d | 130 | 88 | May-Sept. | b | 147 |
| KLAMATH WATERSHEDS | | | | | |
| Clear Lake Reservoir Inflow ^k | 8.5 | 56 | May-Sept. | b | 15.1 |
| Gerber Reservoir Inflow ^k | 2.0 | 40 | May-Sept. | b | 5.0 |
| Sprague near Chiloquin | 146 | 70 | May-Sept. | b | 208 |
| Upper Klamath Lake net Inflow ^k | 275 | 71 | May-Sept. | 352 | 386 |
| Williamson below Sprague River | 215 | 65 | May-Sept. | b | 331 |

STREAMFLOW FORECASTS as of June 1, 1970

| STREAMFLOW FORECASTS | | as of June 1, 1970 | | THIS YEAR | | PAST RECORD | | |
|---|------|--------------------|-----------|--------------------|--------------------|-----------------|--------------------|-------------|
| BASIN, STREAM and/or FORECAST POINT | | | | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | | | | Thousand Acre Feet | Percent of Average | | Last Year | Average '71 |
| LAKE COUNTY, GOOSE LAKE WATERSHEDS | | | | | | | | |
| Chewaucan near Paisley | 44 | 76 | May-July | b | 58 | | | |
| | 48 | 77 | May-Sept. | b | 62 | | | |
| Deep above Adel | 36 | 85 | May-July | b | 42 | | | |
| | 37 | 85 | May-Sept. | b | 44 | | | |
| Drews Reservoir net Inflow ^d | 10.0 | 97 | May-July | b | 10.3 | | | |
| Honey near Plush | 7.0 | 67 | May-July | b | 10.5 | | | |
| | 7.1 | 66 | May-Sept. | b | 10.7 | | | |
| Silver Creek near Silver Lake | 6.9 | 57 | May-July | b | 12.1 | | | |
| | 7.1 | 59 | May-Sept. | b | 14.0 | | | |
| Twentymile near Adel | 5.7 | 62 | May-July | b | 9.6 | | | |
| | 6.2 | 62 | May-Sept. | b | 10.0 | | | |
| HARNEY BASIN WATERSHEDS | | | | | | | | |
| Donner und Blitzen near Frenchglen | 41 | 102 | May-July | 49 | 40 | | | |
| | 47 | 104 | May-Sept. | 53 | 45 | | | |
| Silver near Riley | 8.0 | 119 | May-July | 4.9 | 6.7 | | | |
| Silvies near Burns | 45 | 115 | May-July | 23 | 39 | | | |
| | 47 | 115 | May-Sept. | 25 | 41 | | | |
| Trout near Denio | 4.3 | 78 | May-July | 8.9 | 5.5 | | | |
| | 4.6 | 77 | May-Sept. | 9.4 | 6.0 | | | |

June 1, 1970

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average † |
| AREA 1 - OWYHEE, MALHEUR WATERSHEDS | | | | |
| Agency Valley | 60.0 | 60.0 | 55.8 | 48.8 |
| Antelope | 55.0 | 55.0 | 55.0 | 37.3 |
| Bully Creek | 30.0 | 27.9 | 25.5 | 18.6 |
| Owyhee | 715.0 | 715.0 | 709.3 | 517.0 |
| Warm Springs | 191.0 | 188.6 | 151.1 | 131.9 |
| AREA 2 - BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS | | | | |
| Thief Valley | 17.4 | 17.4 | 17.4 | - - |
| Unity | 25.2 | 24.4 | 23.6 | 27.3 |
| Wallowa Lake | 37.5 | 25.6 | 38.1 | 30.6 |
| Phillips Lake | 73.5 | 68.7 | 50.2 | - - |
| AREA 3 - UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS | | | | |
| Cold Springs | 50.0 | 50.0 | 49.6 | 48.0 |
| McKay | 73.8 | 70.8 | 70.9 | 62.1 |
| AREA 5 - UPPER DESCHUTES, CROOKED WATERSHEDS | | | | |
| Crane Prairie | 55.3 | 33.5 | 29.3 | 42.4 |
| Crescent Lake | 86.9 | 48.2 | 41.0 | 51.9 |
| Ochoco | 47.5 | 42.7 | 33.6 | 37.9 |
| Prineville | 153.0 | 155.8 | 153.9 | 146.8 |
| Wickiup | 200.0 | 156.1 | 150.7 | 172.0 |
| AREA 6 - HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS | | | | |
| Clear Lake (Wasco) | 11.9 | 7.0 | 5.9 | 4.8 |
| AREA 8 - WILLAMETTE WATERSHEDS | | | | |
| Cottage Grove | 30.0* | 28.7 | 27.8 | 27.6 |
| Cougar | 155.2* | 144.1 | 179.9 | - - |
| Detroit | 299.9* | 294.7 | 286.4 | 268.9 |
| Dorena | 70.5* | 65.0 | 65.2 | 63.6 |
| Fall Creek | 115.0* | 112.9 | 109.8 | - - |
| Fern Ridge | 94.2* | 85.5 | 84.6 | 89.8 |
| Foster | 30.0* | 25.4 | 26.5 | - - |
| Green Peter | 270.0* | 250.8 | 252.1 | - - |
| Hills Creek | 200.0* | 166.1 | 193.8 | 187.6 |
| Lookout Point | 337.2* | 326.7 | 320.5 | 327.4 |
| Timothy Lake | 61.7 | 62.7 | 64.1 | 59.4 |
| *Multiple purpose reservoir--space reserved primarily for flood runoff. | | | | |
| AREA 9 - ROGUE, UMPQUA WATERSHEDS | | | | |
| Emigrant Lake | 39.0 | 37.0 | 36.7 | 35.6* |
| Fish Lake | 7.8 | 6.7 | 5.6 | 6.9 |
| Fourmile Lake | 16.1 | 15.4 | 8.5 | 13.0 |
| Howard Prairie | 60.0 | 60.6 | 57.7 | 44.6 |
| Hyatt Prairie | 16.1 | 16.1 | 15.7 | 15.2 |
| *Average for years of record (in base period) after reconstruction. | | | | |

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average † |
| AREA 10 - KLAMATH WATERSHEDS | | | | |
| Clear Lake | 440.2 | 351.6 | 316.3 | 242.2 |
| Gerber | 94.0 | 83.7 | 83.6 | 61.9 |
| Upper Klamath Lake | 584.0 | 571.7 | 564.8 | 538.3 |
| AREA 11 - LAKE COUNTY, GOOSE LAKE WATERSHEDS | | | | |
| Cottonwood | 8.7 | 8.7 | 8.0 | 6.6* |
| Drews | 63.0 | 62.4 | 62.4 | 52.8 |
| Thompson Valley | 19.5 | - - | | 14.7 |
| *Average for years of record (in base period) after reconstruction. | | | | |

SNOW as of June 1, 1970

| SNOW as of June 1, 1970 | | THIS YEAR | | | PAST REC. | |
|-----------------------------------|----------------|------------------|-------------------|------------------------|-------------|--|
| DRAINAGE BASIN and/or SNOW COURSE | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | | |
| | | | | Last Yr. | Ave. 5 Yrs. | |
| Annie Springs | 5/29 | 53 | 28.0 | 13.9 | - - | |
| Billie Creek Divide | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Blue Mountain Camp | 5/28 | 0 | 0.0 | 0.0 | - - | |
| Cascade Summit | 5/27 | 9 | 4.0 | 2.3 | 6.9 | |
| Clear Lake | 5/28 | 0 | 0.0 | 0.0 | 7.4 | |
| Clear Lake (Experimental) | 5/28 | 0 | 0.0 | 0.0 | 0.3 | |
| Cold Springs Camp | 5/27 | 21 | 9.6 | 14.1 | - - | |
| Detroit (City) | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Detroit Dam | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Diamond Lake | 5/26 | 4 | 1.9 | 1.3 | - - | |
| Diamond-Crater Summit | 5/26 | 22 | 11.0 | 9.2 | - - | |
| Diamond-Crater Sum. (Alt.) | 5/26 | 22 | 11.0 | - - | - - | |
| Diamond Lake Junction | 5/26 | 0 | 0.0 | 0.0 | - - | |
| Fourmile Lake | 5/29 | 0 | 0.0 | 0.0 | - - | |
| Hoag Pass | 6/1 | 26 | 13.2 | 18.5 | - - | |
| Hungry Flat | 5/27 | 0 | 0.0 | 0.0 | - - | |
| Marion Forks | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Marks Creek | 5/23 | 0 | 0.0 | - - | - - | |
| McCredie Springs | 5/27 | 0 | 0.0 | 0.0 | 0.0 | |
| Meridian Dam | 5/27 | 0 | 0.0 | 0.0 | 0.0 | |
| Mill City | 6/1 | 0 | 0.0 | 0.0 | - - | |
| New Dutchman Flat #2 | 5/27 | 64 | 35.2 | 29.0 | - - | |
| Oakridge | 5/27 | 0 | 0.0 | 0.0 | 0.0 | |
| Park Headquarters | 5/29 | 92 | 46.1 | 35.7 | - - | |
| Phlox Point | 5/28 | 85 | 42.4 | 43.1 | 43.6 | |
| Quartz Mountain | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Quartz Mtn. (Ext.) | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Railroad Overpass | 5/27 | 0 | 0.0 | 0.0 | 0.0 | |
| Salt Creek Falls | 5/27 | 0 | 0.0 | 0.0 | 0.7 | |
| Santiam Junction | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Still Creek | 5/28 | 3 | 1.4 | 7.3 | 2.4 | |
| Sun Mountain | 5/25 | 4 | 1.7 | 1.8 | - - | |
| Tangent | 5/27 | 0 | 0.0 | 0.0 | - - | |
| Tollgate | 5/28 | 6 | 3.5 | 0.0 | 0.7 | |
| Weston Mountain | 5/28 | 0 | 0.0 | 0.0 | - - | |
| Whitewater Bridge | 6/1 | 0 | 0.0 | 0.0 | - - | |
| Umbrella Falls | 6/1 | 89 | 48.3 | 50.6 | - - | |

SNOW

[illegible]

SOIL MOISTURE as of June 1, 1970

| DRAINAGE BASIN and/or STATION | | Profile (Inches) | | Date of Survey | Soil Moisture (Inches) | | |
|-------------------------------|-----------|------------------|----------|----------------|------------------------|-----------|-----------|
| Name | Elevation | Depth | Capacity | | This Year | Last Year | Average i |
| HARNEY BASIN WATERSHEDS | | | | | | | |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 5/28 | 14.0 | 11.3 | 13.3 |
| Fish Creek | 7900 | 48 | 15.0 | b | | 11.8 | - - |
| Folly Farm | 4450 | 30 | 12.5 | b | | | |
| Silvies | 6900 | 48 | 16.4 | b | | 15.1 | - - |
| Snow Mountain | 6300 | 48 | 16.7 | 5/27 | 16.4 | 16.5 | 15.5 |
| Starr Ridge | 5150 | 36 | 10.6 | 5/28 | 10.6 | 10.5 | 10.3 |
| Stinking Water (DISCONTINUED) | | | | | | | |
| Willow-Bald | 5000 | 24 | 6.6 | 5/27 | 6.4 | 6.2 | 5.3 |

SOIL MOISTURE as of June 1, 1970

| DRAINAGE BASIN and/or STATION | | Profile (Inches) | | Date of Survey | Soil Moisture (Inches) | | |
|--|-----------|------------------|----------|----------------|------------------------|-----------|------------|
| Name | Elevation | Depth | Capacity | | This Year | Last Year | Average 'i |
| OWYHEE, MALHEUR WATERSHEDS | | | | | | | |
| Bear Creek (Nev.) | 7800 | 72 | 16.8 | c | | | |
| Big Bend (Nev.) | 6700 | 48 | 16.7 | c | | | |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 5/28 | 14.0 | 11.3 | 13.3 |
| Crane Prairie | 5375 | 48 | 18.2 | 5/28 | 18.1 | 17.9 | 17.8 |
| Folly Farm Summit | 4450 | 30 | 12.5 | b | | | |
| Jack Creek, Lower (Nev.) | 6800 | 48 | 8.6 | c | | | |
| Jordan Valley | 4390 | 48 | 19.3 | b | | -- | 16.3 |
| Mud Flat (Ida.) | 5500 | 48 | 12.8 | c | | | |
| Rodeo Flat (Nev.) | 6800 | 42 | 11.0 | c | | | |
| Stinking Water Summit (DISCONTINUED) | | | | | | | |
| Taylor Canyon (Nev.) | 6200 | 48 | 15.1 | c | | | |
| Triangle (Ida.) | 5150 | 48 | 16.6 | c | | | |
| BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS | | | | | | | |
| Blue Mountain Summit | 5100 | 36 | 16.8 | 5/27 | 16.0 | 16.0 | 14.9 |
| Dooley Mountain | 5430 | 36 | 9.2 | 5/27 | 6.3 | 5.7 | 5.5 |
| Emigrant Springs | 3925 | 48 | 22.3 | 5/25 | 20.3 | 21.2 | 20.0 |
| Ladd Summit | 3730 | 48 | 18.9 | 6/3 | 13.8 | 12.8 | 11.5 |
| Moss Springs | 5850 | 36 | 25.8 | 6/3 | 19.3 | 17.0 | -- |
| Tollgate | 5070 | 48 | 23.6 | 5/28 | 21.5 | 17.8 | 19.7 |
| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS | | | | | | | |
| Athena-Weston (DISCONTINUED) | | | | | | | |
| Battle Mountain Summit | 4340 | 48 | 13.8 | 5/26 | 12.9 | 13.3 | 12.5 |
| Emigrant Springs | 3925 | 48 | 22.3 | 5/25 | 20.3 | 21.2 | 20.0 |
| Tollgate | 5070 | 48 | 23.6 | 5/28 | 21.5 | 17.8 | 19.7 |
| UPPER JOHN DAY WATERSHEDS | | | | | | | |
| Battle Mountain Summit | 4340 | 48 | 13.8 | 5/26 | 12.9 | 13.3 | 12.5 |
| Beech Creek | 4800 | 48 | 21.3 | 5/28 | 16.4 | 16.9 | 16.0 |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 5/28 | 14.0 | 11.3 | 13.3 |
| Blue Mountain Summit | 5100 | 36 | 16.8 | 5/27 | 16.0 | 16.0 | 14.9 |
| Derr | 5670 | 24 | 9.0 | b | | 8.8 | -- |
| Marks Creek | 4540 | 36 | 14.1 | 5/23 | 13.3 | 13.1 | 13.2 |
| Snow Mountain | 6300 | 48 | 16.7 | 5/27 | 16.4 | 16.5 | 15.5 |
| Starr Ridge | 5150 | 36 | 10.6 | 5/28 | 10.6 | 10.5 | 10.3 |
| Williams Ranch | 4500 | 42 | 17.9 | 5/28 | 15.6 | 16.0 | 15.5 |
| UPPER DESCHUTES, CROOKED WATERSHEDS | | | | | | | |
| Derr | 5670 | 24 | 9.0 | b | | 8.8 | -- |
| Marks Creek | 4540 | 36 | 14.1 | 5/23 | 13.3 | 13.1 | 13.2 |
| Snow Mountain | 6300 | 48 | 16.7 | 5/27 | 16.4 | 16.5 | 15.5 |
| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS | | | | | | | |
| Cooper Spur | 3490 | 72 | 26.4 | c | | 14.3 | -- |
| KLAMATH WATERSHEDS | | | | | | | |
| Bly Mountain | 5090 | 42 | 14.0 | 5/28 | 12.4 | 12.6 | -- |
| LAKE COUNTY, GOOSE LAKE WATERSHEDS | | | | | | | |
| Camas Creek | 5720 | 42 | 14.5 | b | | 12.3 | 12.6 |
| Quartz Mountain | 5230 | 48 | 15.3 | b | | 9.9 | 9.5 |

PRECIPITATION (Inches) as of June 1, 1970

| PRECIPITATION (Inches) as of June 1, 1970 | | CURRENT INFORMATION | | PAST RECORD | |
|--|-----------|---------------------|---------------|-------------|-----------|
| DRAINAGE BASIN and PRECIPITATION GAGE LOCATION | ELEVATION | Date of Reading | Precipitation | Last Year | Average † |
| Allison Work Center (Harney County) | 5320 | 5/28 | .00 | | |
| Derr G. S. (Wheeler County) | 5800 | 3/26 to 5/28 | 3.85 | | |
| Marks Creek (Crook-Wheeler Counties) | 4540 | 4/23 to 5/23 | 1.45 | | |

PREVIOUSLY UNPUBLISHED OREGON SNOW SURVEY DATA
1969-70 Season

| <u>SNOW COURSE Name</u> | <u>No.</u> | <u>Date</u> | <u>Depth (In.)</u> | <u>Water (In.)</u> |
|--------------------------------------|------------|-------------|------------------------|------------------------|
| Althouse (Alternate) | 23G4 | 1/29/70 | 4 | 0.8 |
| | | 2/27/70 | 1 | 0.4 |
| | | 3/30/70 | 0 | 0.0 |
| Billie Creek Divide | 22G13 | 1/13/70 | 24 | 6.9 |
| Cascade Summit | 22F3 | 1/15/70 | 36 | 10.6 |
| | | 2/13/70 | 45 | 16.5 |
| | | 3/16/70 | 54 | 20.7 |
| | | 4/15/70 | 49 | 20.5 |
| | | 5/14/70 | 44 | 18.6 |
| Champion | 22F9 | 1/15/70 | 32 | 10.1 |
| | | 2/16/70 | 30 | 11.4 |
| | | 3/16/70 | 41 | 16.7 |
| | | 4/15/70 | 30 | 13.4 |
| Chemult (Alternate) | 21F11 | 2/27/70 | 13 | 6.0 |
| | | 3/31/70 | 2 | 0.8 |
| Cooper Spur | 21D25 | 11/14/69 | 0 | 0.0 |
| | | 12/1/69 | T | T |
| | | 12/15/69 | 4 | 1.1 |
| | | 1/15/70 | 18 | 5.1 |
| | | 2/16/70 | 28 | 10.3 |
| Cooper Spur (Alternate) | 21D25 | 11/14/69 | 0 | 0.0 |
| | | 12/1/69 | T | T |
| | | 12/15/69 | 7 | 1.8 |
| | | 1/15/70 | 24 | 6.8 |
| | | 2/16/70 | 34 | 11.7 |
| Detroit (City) | 22E1 | 1/13/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/13/70 | 0 | 0.0 |
| | | 4/14/70 | 0 | 0.0 |
| Detroit Dam | 22E2 | 1/13/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/13/70 | 0 | 0.0 |
| | | 4/14/70 | 0 | 0.0 |
| Diamond-Crater Summit (Alternate) | 22F19 | 12/29/69 | 41 | 9.0 |

| <u>SNOW COURSE</u> <u>Name</u> | <u>No.</u> | <u>Date</u> | <u>Depth</u> <u>(In.)</u> | <u>Water</u> <u>(In.)</u> |
|-----------------------------------|------------|-------------|------------------------------|------------------------------|
| Fish Creek (Aerial) | 18G2a | 2/25/70 | 60 | 22.8 |
| | | 3/27/70 | 60 | 23.4 |
| Fourmile Lake | 22G12 | 1/30/70 | 48 | 11.2 |
| | | 2/27/70 | 39 | 15.8 |
| Gerber | 21G4 | 1/15/70 | T | T |
| Golden Curry Creek | 22F10 | 1/15/70 | 0 | 0.0 |
| | | 2/16/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| Goodrich Lake | 18E6 | 3/5/70 | 117 | 45.0 |
| Hogg Pass | 21E6 | 1/13/70 | 50 | 16.3 |
| | | 2/13/70 | 67 | 26.2 |
| | | 3/13/70 | 79 | 31.4 |
| | | 4/14/70 | 71 | 31.9 |
| Lake Harriet | 21D16 | 1/6/70 | 0 | 0.0 |
| | | 2/2/70 | 0 | 0.0 |
| | | 3/31/70 | 0 | 0.0 |
| Lake of The Woods | 22G15 | 1/12/70 | 9 | 2.4 |
| | | 2/13/70 | 10 | 3.0 |
| | | 3/13/70 | 15 | 4.2 |
| | | 4/13/70 | 2 | 0.7 |
| Layng Creek R. S. | 22F13 | 1/15/70 | 0 | 0.0 |
| | | 2/16/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| Lund Park | 22F12 | 1/15/70 | 0 | 0.0 |
| | | 2/16/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| Marion Forks | 21E4 | 1/13/70 | 8 | 2.8 |
| | | 2/13/70 | 6 | 2.0 |
| | | 3/13/70 | 8 | 3.0 |
| | | 4/14/70 | 0 | 0.0 |
| McCredie Springs | 22F6 | 1/15/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| | | 5/14/70 | 0 | 0.0 |

| <u>SNOW COURSE</u> <u>Name</u> | <u>No.</u> | <u>Date</u> | <u>Depth</u> <u>(In.)</u> | <u>Water</u> <u>(In.)</u> |
|-----------------------------------|------------|-------------|------------------------------|------------------------------|
| Meridian Dam | 22F8 | 1/15/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| | | 5/14/70 | 0 | 0.0 |
| Mill City | 22E3 | 1/13/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/13/70 | 0 | 0.0 |
| | | 4/14/70 | 0 | 0.0 |
| Mule Creek | 23G14 | 12/29/69 | 14 | 2.8 |
| | | 1/26/70 | 0 | 0.0 |
| | | 2/28/70 | 0 | 0.0 |
| Oakridge | 22F7 | 1/15/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| | | 5/14/70 | 0 | 0.0 |
| Olive Lake (Aerial) (Ground) | 18E7 | 2/2/70 | 72 | 19.4 |
| | | 3/9/70 | 62 | 19.4 |
| Parkdale | 21D23 | 11/14/69 | 0 | 0.0 |
| | | 12/1/69 | 0 | 0.0 |
| | | 12/15/69 | T | T |
| | | 1/15/70 | T | T |
| | | 2/16/70 | 0 | 0.0 |
| Quartz Mountain | 20G6 | 1/15/70 | 7 | 2.7 |
| | | 2/17/70 | 8 | 2.0 |
| | | 3/16/70 | 4 | 1.5 |
| | | 4/15/70 | 0 | 0.0 |
| Quartz Mtn. (Extension) | 20G6 | 1/15/70 | 7 | 2.6 |
| | | 2/17/70 | 10 | 2.3 |
| | | 3/16/70 | 4 | 1.9 |
| | | 4/15/70 | 0 | 0.0 |
| Railroad Overpass | 22F5 | 1/15/70 | 0 | 0.0 |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| | | 5/14/70 | 0 | 0.0 |

| SNOW COURSE Name | No. | Date | Depth (In.) | Water (In.) |
|------------------------|-------|----------|----------------|----------------|
| Salt Creek Falls | 22F4 | 1/15/70 | 10 | 3.0 |
| | | 2/13/70 | 5 | 2.2 |
| | | 3/16/70 | 11 | 3.5 |
| | | 4/15/70 | 6 | 1.9 |
| | | 5/14/70 | 0 | 0.0 |
| Santiam Junction | 21E5 | 1/13/70 | 25 | 8.5 |
| | | 2/13/70 | 26 | 9.0 |
| | | 3/13/70 | 25 | 9.7 |
| | | 4/14/70 | 1 | 0.4 |
| Silvies (Aerial) | 18G1a | 2/25/70 | 14 | 5.7 |
| | | 3/27/70 | 11 | 4.4 |
| Siskiyou Summit | 22G20 | 1/13/70 | 7 | 2.1 |
| | | 2/12/70 | 0 | 0.0 |
| | | 3/12/70 | 5 | 1.6 |
| | | 4/15/70 | T | T |
| Siskiyou Summit (Alt.) | 22G20 | 1/13/70 | 5 | 1.6 |
| | | 2/12/70 | 0 | 0.0 |
| | | 3/12/70 | 7 | 2.0 |
| | | 4/15/70 | T | T |
| Strawberry (Aerial) | 20G9a | 1/23/70 | 14 | 3.5 |
| Timothy Lake | 21D17 | 1/6/70 | 22 | 4.8 |
| | | 1/21/70 | 20 | 7.6 |
| | | 2/2/70 | 35 | 10.7 |
| | | 2/26/70 | 32 | 11.2 |
| Umbrella Falls | 21D30 | 6/27/69 | 5 | 3.3 |
| | | 12/1/69 | 14 | 3.5 |
| Upper Valley | 21D24 | 11/14/69 | 0 | 0.0 |
| | | 12/1/69 | 0 | 0.0 |
| | | 12/15/69 | T | T |
| | | 1/15/70 | 15 | 4.3 |
| | | 2/16/70 | 19 | 6.6 |
| Weaver Creek | 22F11 | 1/15/70 | 0 | 0.0 |
| | | 2/16/70 | 0 | 0.0 |
| | | 3/16/70 | 0 | 0.0 |
| | | 4/15/70 | 0 | 0.0 |
| Whitewater Bridge | 21E3 | 1/13/70 | T | T |
| | | 2/13/70 | 0 | 0.0 |
| | | 3/13/70 | 0 | 0.0 |
| | | 4/14/70 | 0 | 0.0 |

ERRATA: 1970 SNOW MEASUREMENTS PUBLISHED IN ERROR

| <u>SNOW COURSE</u> <u>Name</u> | <u>No.</u> | <u>Date</u> | <u>Depth</u> <u>(In.)</u> | <u>Water</u> <u>(In.)</u> |
|-----------------------------------|------------|-----------------------------------|------------------------------|------------------------------|
| Anthony Lake | 18E1 | | | |
| Previously Published | | 1/30/70 | 68 | 21.8 |
| Correct Data | | 1/30/70 | 68 | 21.9 |
| Beech Creek | 19E2 | | | |
| Previously Published | | 1/29/70 | 8 | 1.9 |
| Correct Data | | 1/29/70 | 7 | 1.8 |
| Previously Published | | 2/25/70 | 3 | 1.5 |
| Correct Data | | 2/25/70 | 3 | 1.4 |
| Blue Mountain Summit | 18E13 | (Erroneously published in Area 2) | | |
| Previously Published | | 1/29/70 | 21 | 7.2 |
| Correct Data | | 1/29/70 | 27 | 7.2 |
| Cooper Spur | 21D25 | | | |
| Previously Published | | 2/2/70 | 34 | 6.4 |
| Correct Data | | 2/2/70 | 34 | 10.4 |
| County Line | 18D8 | | | |
| Previously Published | | 3/31/70 | 10 | 3.4 |
| Correct Data | | 3/31/70 | 11 | 3.4 |
| Dead Horse Grade | 21E8 | | | |
| Previously Published | | 2/26/70 | 0 | 0.0 |
| Correct Data | | 2/26/70 | 8 | 2.3 |
| Fish Lake | 22G14 | | | |
| Previously Published | | 4/24/70 | 0 | 0.0 |
| Correct Data | | 4/30/70 | 8 | 3.0 |
| Goodrich Lake | 18E6 | | | |
| Previously Published | | 2/4/70 | 111 | 33.0 |
| Correct Data | | 2/4/70 | 111 | 33.2 |
| Grayback | 23G3 | | | |
| Previously Published | | 1/27/70 | 32 | 14.1 |
| Correct Data | | 1/27/70 | 33 | 14.1 |
| New Dutchman Flat #2 | 21F19 | | | |
| Previously Published | | 3/1/70 | 100 | 41.1 |
| Correct Data | | 3/1/70 | 100 | 41.0 |
| Olive Lake | 18E7 | | | |
| Previously Published | | 5/2/70 | 64 | 25.9 |
| Correct Data | | 5/2/70 | 64 | 25.5 |

| PP&L SNOW COURSES | | No. | Date | Depth (In.) | Water (In.) |
|-------------------|----|----------|------|----------------|----------------|
| Name | | | | | |
| Beatty | 1 | 12/15/69 | 0 | 0.0 | |
| | | 1/15/70 | 0 | 0.0 | |
| Bly 101 Ranch | 10 | 12/15/69 | 0 | 0.0 | |
| | | 1/15/70 | 0 | 0.0 | |
| Chiloquin | 3 | 12/15/69 | 0 | 0.0 | |
| | | 1/15/70 | T | T | |
| Crystal | 4 | 12/13/69 | 2 | 0.4 | |
| | | 1/14/70 | 7 | 2.5 | |
| Fort Klamath | 5 | 12/15/69 | 2 | 0.2 | |
| | | 1/14/70 | 7 | 2.2 | |
| Harriman Lodge | 8 | 12/15/69 | 0 | 0.0 | |
| | | 1/15/70 | 4 | 1.3 | |
| Kirk | 6 | 12/15/69 | 0 | 0.0 | |
| | | 1/15/70 | 8 | 2.8 | |
| Quartz Mountain | 9 | 1/15/70 | 14 | 4.2 | |

SNOW SURVEYS AT RADIO-TELEMETRY SITES
for Calibration Purposes

| Site | No. | Date | Depth (In.) | Water (In.) |
|-------------------|-------|---------|----------------|----------------|
| Buck Creek Pillow | 18D19 | 1/30/70 | 70 | 23.3 |
| | | 3/31/70 | 93 | 34.9 |
| | | 4/30/70 | 95 | 40.0 |
| Irish-Taylor | 21F6 | 2/27/70 | 74 | 27.8 |
| | | 3/31/70 | 84 | 31.5 |
| Peavine Ridge | 21D14 | 1/29/70 | 30 | 7.8 |
| | | 2/26/70 | 30 | 10.3 |
| | | 3/31/70 | 25 | 9.8 |
| Three Creek | 21E13 | 4/1/70 | 56 | 20.5 |
| | | 5/1/70 | 42 | 17.5 |

| <u>SNOW COURSE</u> <u>Name</u> | <u>No.</u> | <u>Date</u> | <u>Depth</u> <u>(In.)</u> | <u>Water</u> <u>(In.)</u> |
|---|------------|-------------|------------------------------|------------------------------|
| Standley (Aerial) | 17D11a | | | |
| Previously Published | | 1/29/70 | 101 | 30.3 |
| Correct Data | | 1/29/70 | 98 | 29.4 |
| Starr Ridge | 19E7 | | | |
| Previously Published | | 2/24/70 | 17 | 6.1 |
| Correct Data | | 2/24/70 | 17 | 6.0 |
| State Line | 20H1 | | | |
| (Erroneously published in Area 11 only) | | | | |
| Previously Published | | 1/28/70 | 38 | 11.0 |
| Correct Data | | 1/28/70 | 18 | 5.2 |

PP&L SNOW COURSE

| | | | | |
|----------------------|---|----------|----|-----|
| Kirk | 6 | | | |
| Previously Published | | 12/30/69 | 12 | 2.6 |
| Correct Data | | 12/30/69 | 11 | 2.4 |

ERRATA: FORECAST DATE OF LOW FLOW VALUES

| <u>FORECAST POINT</u> | <u>AVERAGE DATE OF LOW FLOW VALUE</u> |
|-----------------------|---------------------------------------|
| Umatilla at Pendleton | |
| Previously Published | June 22 |
| Correct Data | May 22 |



The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY

- Douglas County Water Resources Survey

FEDERAL

- Department of Agriculture
 - Cooperative Extension Service
 - Forest Service
 - Soil Conservation Service
- Department of Commerce
 - Weather Bureau
- Department of the Interior
 - Bonneville Power Administration
 - Bureau of Land Management
 - Bureau of Reclamation
 - Fish and Wildlife Service
 - Geological Survey
 - National Park Service
- Department of National Defense
 - Corps of Army Engineers

PUBLIC UTILITIES

- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES

- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS

- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warm Springs Irrigation District

PRIVATE ORGANIZATIONS

- The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
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